



200623

E.I. DuPont Grasselli Plant Linden/Union County, New Jersey

The E.I. DuPont, Grasselli Plant, Linden, Union County, New Jersey, has been in operation since the 1800's. DuPont took over the plant in 1928 for the purpose of chemical and pigment manufacture. The plant is engaged in the manufacture of sulfuric acids, reagent grade chemicals, agricultural chemicals, aluminum sulfate, ammonium thiosulfate, sodium bisulfite solution, chlorosulfonic acid, dimethyl sulfate, formaldehyde and sulfamic acid.

A medium priority for inspection is given to this site due to the lack of sufficient files and due to the fact that the Eckhardt List states that approximately 7951 tons of chemical waste was disposed of at this site between 1928 and 1979.

Submitted by:

Robert Hayton

Environmental Specialist

NJDEP-HSMA

RCRA 3012 Project

NJD002185965

07 TELEPHONE NUMBER 08 DATE 924, 84 (609 292-12) 0 924, 84

ŞEPA	POTENTIAL HAZA PRELIMINAR PART 1 - SITE INFORM	Y ASSES	SMENT	` -		FICATION 2 SITE NUMBER
IL SITE NAME AND LOCATION						
DI SITE NAME Hages opromen, or descriptive name of past		02 STREE	, ROUTE NO., O	R SPECIFIC LOCATIO	N IDENTIFIEM	
E.I. DuPont		Sou	th Wood	Avenue	•	
D3 CfTY				106 COUNTY		07COUNTY 08 CONG
Linden	,	NJ	* * * * * * * * * * * * * * * * * * * *	1		CODE DIST
9 COORDINATES LATITUDE	LONGITUDE	-1-11-	0/030	Union		
40°36'53"	4°12'28"	Blo	ck 586	Lot	s 8,9	,11
Rt 1 North to Wood Avmiles. Bear right to	iremiey Pt.	RaG	o over	turnpike	and r	nake left o
to approaching road a	<u>ind continue</u>	for .	7 mile.	DuPont i	s at e	end of road
II. RESPONSIBLE PARTIES						
1 OWNER IF ANOTHER		02 STREET	(Musmoss, maning,	res-sential)		
E.I. DuPont	·	100	7 Marke	t Street		
3 CITY			05 ZIP CODE	06 TELEPHON	NUMBER	
Wilmington		DEL	19898	()		
OPERATOR (If Argum and adjoint from owner)		OB STREET	(Surpost main).	Messensis		
Robert Blair, Vice Pr	resident	Sout	n Wood	Avenue		
CITY		10 STATE	11 ZIP CODE	12 TELEPHON	NUMBER	T
Linden		NJ	07036	1201 8	62-150	ob .
TYPE OF OWNERSHIP (Checa ane)		1110	01020			Т
XXA. PRIVATE B. FEDERAL:	(Appeny name)		C. STA	TE DD.COUNTY	/ D E. ML	INICIPAL
C. F. OTHER.			. 🗀 G. UNK	NOWN		
GWINER OPERATOR NOTIFICATION ON FILE ICHECA ME	(Suece+)				 	
A. RCRA 3001 DATE RECEIVED:	1,775	LLEDWASTE	SITE (CERCIA V	DATE BECEN	ien.	/ C NONE
	Y YEAR		. OTTE ICENTED TO	DATE RECEIV	MONTH (AV YEAR D. C. NONE
. CHARACTERIZATION OF POTENTIAL HA	<u> </u>	*****		-		
	BY (Check of that apply) A. EPA B. E	PA CONTRAC	TOR E	C. STATE	O D OTHER	CONTRACTOR
M NO DATE WONTH DAY YEAR	DE. LOCAL HEALTH OF		-			
**	CONTRACTOR NAME(S):		*		(Specify)	
SITE STATUS (Check and)	03 YEARS OF OPE	RATION		C -		
MA. ACTIVE B. INACTIVE C. UNK	NOWN Prior_			. 26	g nyknow	chment
DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT	T, KNOWN, OR ALLEGED	BEGINNING YE	VA ENDON	G YEAR	· · · · · · · · · · · · · · · · · · ·	
Sulfuric acids, reagen	t grade chem	icals.	agricu	ltural c	homica	le aluminus
sulfate, ammonium thio	sulfate, sodi	um bis	ulfite	solution	n chla	noculfonio
acid, dimethyl sulfate	.formaldehyd	e and	Sulfam	ic acid	dimath	v]bydpoov]
DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONS	, rormarach, a	c and	34114iii	ic aciu,	ı ine ci	yinyurocyia
Dupont has numerous d	MENT AND/OR POPULATION	the =	in and	cunfoco		+ b - +
regulated by NJDEP.Si	nce this has	haan	the cit	suriace	water	inat are
facturer for over 100	Means the conformation	vij v. negli	riie 21	re of a (nemic	aı manu-
acturer for over 100	Acaisting 2	oli afi	u grou	nuwater 1	nay be	contaminat
PRIORITY ASSESSMENT	• • • • • • • • • • • • • • • • • • • •					
PRIORITY FOR INSPECTION (Cheek one. If high or medium	s checked, complete Part 2 - Waste In	formation and Parl	3 - Description of his	Maragus Conducts and in		
A. HIGH XXXB. MEDIUN	A . D C. LOW		D. NO1	Æ		•
(Inspection required promptly) (Inspection	(inspect on te	ne avelable basis	(NO Im	Thei action needed, some	elo Gurreni diapoi	seen formy
INFORMATION AVAILABLE FROM					. , -	
CONTACT	02 OF (Agency/Orga	unistram		, . , . 		03 TELEPHONE NUMBER
lenrv Gavin	Linden	Health	Dent			(201) 486-38
4 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	106 ORGA		IOT TELEPHOA	C A 40 C D	00 00 70

NJDEP

Robert Hayton
EPAFORM 2010-12(7-81)

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENT	IFICATION
DI STATE	DE SITE NUMBE

PHYSICAL ST LI A SOLD LI B POWDER LI C. SLUDGE LI D. OTHER	LI G. GAS	CUBIC YARDS NO. OF DRUMS	TY AT SITE	O3 WASTE CHARACTE IX A. TOXIC IX B. CORROS III C. RADIOA IX D. PERSIST	LI E. SOLU SIVE LI F. INFEC CTIVE LI G. FLAM	BLE LJ I. HIGHLY V TIOUS LJ EXPLOSI MABLE LÖK. REACTN	VE VE ATIBLE
L WASTE T	YPE	<u> </u>					
CATEGORY	SUBSTANCE?	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES						
occ	OTHER ORGANIC C	HEMICALS					
юс	INORGANIC CHEMI	CALS					
ACD	ACIDS			<u> </u>			
BAS	BASES			<u> </u>			
MES	HEAVY METALS			<u> </u>	<u> </u>		
. HAZARD	OUS SUBSTANCES (500	Appendix for mass frague				05 CONCENTRATION	OS MEASURE OF
CATEGORY	02 SUBSTANCE		03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	US CONCENTIATION	CONCENTRATIO
ACD	Sulfuric Ac		7664-93-				+
MES	Aluminum Su	ılfate	10043-01				
ACD	1		te7783-18-				
ACD	Sodium Bisı	ılfite	7631-90-				-
ACD	ChloroSulf	<u>onic Aci</u>		· <u> </u> 5			-
SOL	DimethylSu	lfate	77-78-1		,		
000	Formaldehy	de	50-00-0				_
ACD	Sulfamic A	cid	5329-58-	- 9			
· · · · · · · · · · · · · · · · · · ·	DimethylHy	drocvlam	ine 999				
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CATEGOR	Y O1 FEEDST	OCK NAME	02 CAS NUMBER	FDS	-		
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT RIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

		IDEN			
1	01	STATE	03	SITE	NUMBER

HAZARDOUS CONDITIONS AND INCIDENTS				C: 411 CCC
DI & A. GROUNDWATER CONTAMINATION	02 OBSERVED (DATE:)	EX POTENTIAL	CI WITEGED
2 DODUH ATION BOTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	c Groun	dwater co	ntamina.
ant has been in operation on may be a problem due to	n prolonged period	of che	mical man	ufacture
this facility.	o protonged per tea	G . , , , , ,		
, chi's lactifics.		Attach	ment D	
01 IX B. SURFACE WATER CONTAMINATION	02 Li OBSERVED (DATE.	1	Z POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		•	
Pont has permitted dischar	rges to the Arthu	r Kill.		•
		•	•	
		Attach	ment B	
20.05.40	02 C OBSERVED (DATE	}	M POTENTIAL	C: ALLEGED
01 X: C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	•		
uPont has permitted discha	rges to the air.		•	
grong has permitted a sena	. 900 00 010 411			
		Attach	ment B	
	AA C. ODDED 10 10 TE		[] POTENTIAL	L ALLEGED
01 [] D FIRE/EXPLOSIVE CONDITIONS	02 CJ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	I	Dicinie	- 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
03 POPULATION POTENTIALLY AFFECTED:				
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UTILE DIRECTION (1417)	CO MARKALET CATE	•••	/ POTENTAL	ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	•		
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		1	NI POTENTIAL	□ ALLEGED
OF THE CONTAMINATION OF SOIL OF CO.	02 D OBSERVED (DATE:		JQ 1 Q	
01 & F CONTAMINATION OF SOIL 206.27 a C	Tes 04 NARRATIVE DESCRIPTION			
01 & F CONTAMINATION OF SOIL 206.27 a C				•
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ousekeeping practices in t	the past may have o	contami	nated soi	1.
ousekeeping practices in t	the past may have o	contami	nated soi	l ALLEGED
OUSEKEEPING PRACTICES IN TO STAND THE CONTAMINATION OF ROPULATION POTENTIALLY AFFECTED:	O2 [] OBSERVED (DATE:	contami	nated soi	1.
ousekeeping practices in t	the past may have of the past	contami	nated soi	l ALLEGED
Ousekeeping practices in t O1 L.G DRINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: O1 L) H WORKER EXPOSURE/INJURY	O2 [] OBSERVED (DATE:	contami	nated soi	l ALLEGED
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Ousekeeping practices in t Oilig Drinking WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: O1 D H. WORKER EXPOSURE/INJURY	O2 [] OBSERVED (DATE:	contami	nated soi	l ALLEGED
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

	į i.	IDENT	TIFICATION	ļ
į	01	STATE	02 SITE NUM	BER

	ART ASSESSMENT ZARDOUS CONDITIONS AND INCIDENT	s	TE HOME I
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)		······································	
01 □ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
	· ·	•	
01 D. K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
		•	
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	D ALLEGED
01 DM. UNSTABLE CONTAINMENT OF WASTES	02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
(Spins (undifficienting injuries reason) grams) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		The American pages in
01 D N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	[] POTENTIAL	□ ALLEGED
01 □ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP8 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
			<i>,</i>
01 D P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	[] ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		· · · · · · · · · · · · · · · · · · ·
Eckhardt lists this site as ha	aving disposed of appr	roximately	7951
tons of chemical waste on sit	e by various disposal At	methods. ttachment	С
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
	•		
V. SOURCES OF INFORMATION (Case appeals: relevences, e.g., siste fals).	Saripe analysis, 1800ffsi	,	
At manufactor at the Attendantified lass described a his selection.			
NJDEP-Division of Water Resou NJDEP-Division of Science & R	rces-NJPDES Permit esearch		



Preliminary Assessment

E.I. DuPont Grasselli Plant Linden, New Jersey 07036 Union County

EPA ID # NJ0980771364

GVASS VILLE PLANT

NJOEP	EI Dyron i Grasseliplant
DIVISION OF WATER RESOURCES:	
A. Enforcement NADES B. Groundwater XX	
B. Groundwater KO +	, le
C. Other	
DIVISION OF WASTE MANAGEMENT:	
A. HSMA Kotile	
h. Entarcement MANCH	112 NOTITE
c. salid Waste will	CALL BACK 9/14 NOTIL
ENATRONMENTAL ONALITA:	
A. Air Pallution	
β. Pesticides	
Ç. Other	
DIVISION OF FISH AND GAME:	
OFFICE OF SCIENCE AND RESEARCE	H;
A. Industrial Survey	
μ, Other	
N.J. PEPARTMENT OF HEALTH:	
LOCAL AUTHORITIES:	/
A. Health Department	File H. Gavin
A. Town or County Clerk_	TAXMAP Engineers office
UNITED STATES GOVERNMENT:	
A. EPA	
B. other	



.V. THE ROLE OF OUR PLANT AT LINDEN, N.J., IN ENVIRONMENTAL CONTROL (Cont'd)

F. Environmental Control Facilities in Our Plant - Present & Future

Present

- Investment in plant environmental control facilities totals approximately \$1 million.
- Equipment includes many mist collectors, fume scrubbers, absorbers, dust collectors, neutralization systems and retention ponds.
- The most modern instrumentation and analyzers are used to monitor our processes.
- We monitor and control sulfur dioxide emitting stacks.
- We consume low sulfur fuel.
- We have reduced our Biochemical Oxygen Demand (BOD) load to the Arthur Kill > 80% since 1968 by barging to sea.
- We have pH monitors and alarms on effluents.
- We have continuous temperature recording to avoid thermal discharges to Arthur Kill.
- We discontinued the use of our incinerator in 1969.
- We isolate our sources of excessive noise and monitor our employees' hearing by annual audiograms.

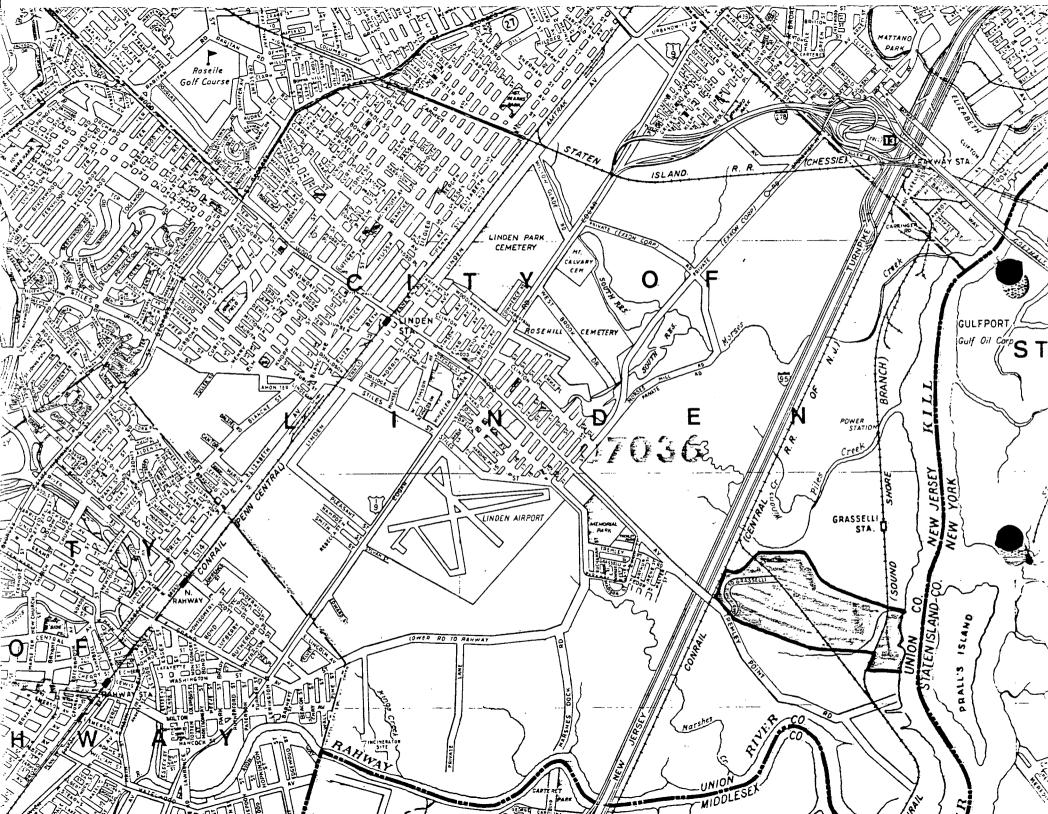
Future

We have designed into recently approved projects:

- A burner to convert all off-gases to carbon dioxide and water. (> 98% efficiency)
- Neutralization facilities to avoid discharge of objectionable effluents.
- New facilities to eliminate a type of furnacing operation in existence here at Grasselli for over 61 years in which we have difficulty controlling gaseous emissions.
- Additional alarm and detection systems to avoid acidic effluent discharges.

We are continually studying all existing processes to further reduce wastes and/or to improve the method of disposal.







E. I. DU PONT DE NEMOURS & COMPANY

GRASSELLI PLANT LINDEN, NEW JERSEY 07036

CHEMICALS, DYES AND PIGMEN IS DEPARTMENT

May 29, 1980

Industrial Survey Project P.O. Box 251 Trenton, New Jersey 08602

Dear Sirs:

We attach our completed report forms for your Selected Substances Survey.

Very truly yours,

21 W. Mc Davell

H. W. McDowell

Environmental Coordinator

HWM/mel Attach.

ATTACKMENTER

Raturn forms to:

INDUSTRIAL SURVEY PROJECT P.O. SOX 251 TRENTON, NEW JERSEY COOR

June 81

OFFICE OF THE COLDNISCHER SELECTED SUBSTANCE REPORT

PART I — General Plant In	lormatica			,	
Couplete one Report i				_	. '
L. Company Name E.	Í. du Pont de	Nemours	and Co	mpany, Inc.	
2. Division of Plant Name _	CD&P Depart	ment		•	
L. Maillag Address (Street)	Grasselli 1	Plant		· ·	
(Chy/Tom) Li	nden	County_	Union	Size N.J. Zip Code.	07036
L Plant Location Address (Same Same	e		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·
(11 cot as above)	• • •	County		Since Zip Code	
City/ Com	i 40 This I continu	1928 (Du	Pont -	owned)	
L. Person to Contact Regar	TI TI	MaDowell		Environment	al Coord
. Person to Contact Regar	this fleport. The Wa	TEOU	•	(1)	· · · · · · · · · · · · · · · · · · ·
. Phone Number (Area Con					
L SIC Code (Four Olgit)					
). Nature of Eppinees	Chemical Ma	anufactur	er		
L. Number of Production E	mployees at this Plant Sit	32	5		
1. Does this plant manufac	store, crocoss, form, repac	kage, release, ust	, dispose of of	store any of the selected	angatan cie
shown on Table I of the	enclosed instructions? (Check Com) YES	N CAN WO L		
	r 11 la "YES", complete			r, algn and return.	
If your susmer to unique	y 11 is "NO", complete C	mestiga 15, sign a	and returns		
, HERESY, CERTIFY THA	AT ALL STATEMENTS W	NOE BY ME IN TH	IS REPORT A	RE TRUE, COMPLETE A	NO CORRECT
to the best of my kno	MILEDGE AND THAT EST	MILATES MHEHE	MANE B	EEU IDAGE IN GOOD LY	
NAME (Prim) Harry	W. McDowell	Signatur	Han	w. Mc Do	vell
	onmental Coor				
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1 - General Information (continued)	•					ī
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table to the instruction of the 2re manual	actured, processed, formed, repeakings	dyred.	╂╌┼╴	+-+-	++-	
and, disposed of or stored at the plant site	131-11-3		-	++	-{- -	
Dimethyl Phthalate	131 11 3		╸┃╂╼╂╴	++-		-
Formaldehyde	50-00-0		┃ ┼╾┼	- - -	+-+-	
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Vitatewater Discharges Complete the fol-		•	+	 		+-
A. Discharge to publicly owned treatment	works (POTT):		1		 	1,1
1. Name of Utility (POTE) NOt	Applicable	·	_ h		1	/
		_	H			-
Address/Location			— -			11
2. Estimated Average Volume of Nast	swater Discharged to POTY in a day.			17		1:
Not Applicable	callons.			17	1 1	1.1
	· .		12	Ti	1 1	11
3. Briefly describe any prespeatment :	Annligable	•	 ⁴-	1	 	T
Not	Applicable	·	-			
4. Wastawater consists of: () Proc	Applicable	Non-Contact ishionn Vale				
4. Wastawater consists of: () Proc	Applicable SSS Nater. () Contact Cooling. () () Contaminated Storm Nater. () Not Applicable Tributary Stream:	Non-Contact Ishiown Viale				
4. Yrastawater consists of: () Proc Cooling, () Comestic Sawage, () Scrubber Viater, () Other;	Applicable	Non-Contact Ishionn Wate	*• 1			
Note 4. Yrastawater consists of: () Proc Cooling, () Domestic Sawage, () Scrubber Vister, () Other; B. Discharge to Navigable Waterway or 1 1. Name of Receiving Stream	Applicable SSS Nater. () Contact Cooling. () () Contaminated Storm Nater. () Not Applicable Tributary Stream:	Non-Contact Ishiomi Wate				
4. Yastawater consists of: () Proc. Cooling. () Domestic Sawage. () Scribber Vister. () Other; B. Discrarge to Navigable Waterway or 1. Name of Rocciving Stream. 2. NPDES Permit Number	Applicable	SNIGHT HALE			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4
Note 4. Vizatawater consists of: () Proc Cooling. () Comestic Sawage. () Scrubber Vister. () Other; B. Discharge to Navigable Waterway or 1. Name of Receiving Stream. 2. NPDES Permit Number 3. Estimated average volume of trade	Applicable Tess Nater. () Contact Cooling. () () Contaminated Storm Nater. () Wa Not Applicable Tributary Stream: Arthur Kill NJ0002640 toward discharged to receiving stream (Plant Tot	in a day)()2	6 4
4. Yastawater consists of: () Proc. Cooling. () Domestic Sawage. () Scribber Vister. () Other; B. Discrarge to Navigable Waterway or 1. Name of Rocciving Stream. 2. NPDES Permit Number	Applicable () Contact Cooling. () () Contaminated Storm Valer. () Wa Not Applicable Tributary Stream: Arthur Kill NJ0002640 termin discharged to receiving stream galions. (Plant Tot	in a day) 	6 4
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State of New Jorsey Department of Environmental Protection

PART II

SELECTED SUBSTANCE REPORT

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FOR DEP USE COMPLETE ONE FORM FOR EACH SELECTED SUBSTANCE 1.0. 1. Name and Location of Plant 40007 Linden, New Jersey I. du Pont de Nemours & Co. 2. Selected Substance Name CAS # 131 04 131-11-3 Dimethyl Phthalate 3. Briefly Descripe Its Use On The Site:

Added to a finished product as a stabilizer.

	COUPLETE THE FOLLOWING INFORMATION	ENTER THE ACTUAL OR ESTIMATED AMOUNTS	USE THE RE- QUESTED UNITS	ACT- UAL	ESTI- MATE
	♣ QUANTITY PRODUCED ON SITE	None	ibs/yr.	Χ	
TRNOVAH-PUT QUANTITIES	5. QUANTITY BROUGHT ONTO SITE	CBI)	lbs/yr.		
noug UAIIT	6. CUANTITY CONSUMED ON SITE	None	lbs/yr.	Х	
Fa	.7. CLANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT	/ CBI	lba/yr.	_	
	8. MAXIMUM INVENTORY	1 CBIO	lbs		
	9. TOTAL STACK EMISSIONS OF	Negligible* 868	Bibalyr.		ĺ
ions	SELECTED SUBSTANCE	Negligible 886	Commax los/day	1	
AIR EHISSIONS	10. TOTAL FUGITIVE BASSIONS OF	11091191010	Cour.		
	SELECTED SUBSTANCE	Negligible 886	max Iba/day	,	
	11. TOTAL DISCHARGE OF SELECTED	400*	lbs/yr.		x
UATEI Aroe	SUBSTANCE INTO SURFACE WATER	2	max lbs/day		X
WASTEWATER DISCHARGE	12. TOTAL DISCHARGE OF SELECTED	None	lbs/yr.	X	
30	SUBSTANCE INTO PUBLICLY OWNED TREATMENT WORKS	None	max lbs/day	Х	

13. DISPOSAL OF WASTE CONTAINING THE SELECTED SUBSTANCE

Location 70 mail Disposal Deleca ona eman Rebroga ona eman	PHYSICAL STATE TABLE A	DISPOSAL METHOD TABLE B	CLIANTITY OF SELECTED SUBSTANCE DISPOSED (Iba)	FOR DEP USE
Not Applicable		,		•
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3				e ta 😅 😅 🔾
•			;	1
4				A Charles A State Control
	7			
•	`			
	7			

TABLE A PHYSICAL STATE

W-01 Salid W-62 Liquid W-OL Sturry

M-02 Evaporation M-M3 Palusing Final W-04 Studge M-04 Incineration 14-05 Injection Voll W-WI Other Impedity) M-06 Leguon

DISPOSE L METHODS

M-07 Land Burral M-08 Land cardering M-09 Positra (244) at M-10 (Jacan

12-13 Curtico Water 15-14 Science System M-16 Court lighter H-17 Stored On Silve term (number (stated))

* *Pump directly from drums to hold tank into a finished product. Drums are not rinsed or washed. Only loss from leaks.

M-01 Compositing



State of New Jersey Department of Environmental Protection

PART II

SELECTED SUBSTANCE REPORT

C	OMPLETS ONE FORM FOR E	·	FOR DEP USE		
1.	Name and Location of Plant E. I. du Pont	de Nemours & Co	. Linden, New	Jersev 1.0.	40007
2.	Science Substance Name Formaldehyde		GAS # 50-00-0	05 5	00 0

3. Briefly Descripe Its Use On The Site:

Produced by oxidation of methanol for offplant sales.

Š	POR THE PLANT BASED ON 1878 THE PLANT BASE	ENTER THE ACTUAL OR ESTIMATED MOUNTS	USE THE RE- QUESTED UNITS	ACY- UAL	ESTI-
T	4. QUANTITY PRODUCED ON SITE	? CB1	lbs/yr.		
THE SUBSECTION OF THE STATES	5. QUANTITY BROUGHT ONTO SITE	None	lbs/yr.	Х	
ארא און	E. CUANTITY CONSUMED ON SITE	None	lbs/yr.	Х	
۲	.7. CLANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT	CBI	lbs/yr.		
	8. MAXIMUM INVENTORY	CBI	lbs		
•	9. TOTAL STACK EXISSIONS OF SELECTED SUBSTANCE	20,000	lbs/yr.		X
FONS	SELECTED SUBSTANCE	100	max lbs/day		Х
AIR ELISSIONS	10. TOTAL FUGITIVE EXISSIONS OF	* 68888	lbs/yr.		
-	SELECTED SUBSTANCE	* 8888	max (bs/day		
d	11: TOTAL DISCHARGE OF SELECTED	None	lbs/yr.		X
NATE ARDE	SUBSTANCE INTO SURFACE WATER	None	max lbs/day		X
WASTEWAYER DISCHARGE	12. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO PUBLICLY OWNED	None	lbs/yr.	Х	
3	TREATMENT WORKS	None	max lbs/day	Х	

11. DISPOSAL OF WASYE CONTAINING THE SELECTED SUBSTANCE

Location of Final : Disposal Site Perford and Address		PHYSICAL STATE TABLE A	DISPOSAL DONTES D BJEAT	CLIANTITY OF SELECT SUBSTANCE DISPOSED (160)	FOR DEP USE
E.I. du Pont & Co; Linder		W-02 W-05 (eas)	M-04	186,000	 WARNE S
4				•	 ()
3	•				 100 a 5
4			•		fer
5	•				

TABLE A
PHYSICAL STATE

W-01 Solid W-62 Liquid W-01 Sturry W-D4 Shalqu 11-01 Compositing M-02 Evaporition M-03 Hailing Funk M-04 Incineration

TAPLE B DISPOSEL METHODS M-07 Land Birrat £508 Land Cara Ying

M-09 Newton katient M-10 Operan

12-10 Diffice Wathe 15-14 Spunishase System M-16 Court Imagation 4-17 Stead On Site

*Acurex, Inc. currently under contract to EPA to study fugitive emissions from formaldehyde plants.

Trenton, N.J. 08625 (609) 984-4429

MAR 0 5 1984

PUBLIC NOTICE

NOTICE: ISSUANCE OF DRAFT NJPDES PERMIT NJ0002640

Notice is hereby given that:

E.I. DuPont DeNemours & Co. 1007 Market Street Wilmington, DE 19898

has applied to the New Jersey Department of Environmental Protection (NJDEP) for a draft New Jersey Pollutant Discharge Elimination System (NJPDES) permit to discharge from a facility located in Linden, Union County, New Jersey. The facility, referred to as the Grasselli Plant, is classified as a Major by U.S. EPA. The company's application is for renewal of an existing NJPDES permit. The receiving stream is Arthur Kill, classified as TW-3 waters.

The applicant is primarily involved in the manufacture of inorganic chemicals. Organic chemicals account for approximately 12 percent of total chemical production. The applicant has classified its chemical production according to the following industrial activities: dimethyl sulfate, reagent acids (sulfuric, nitric and hydrochloric), chlorosulfonic acid, sulfur trioxide, ammonium thiosulfate, sodium bisulfite, sulfuric acid (other nonreagent grades), formaldehyde and dimethyl hydrocyl amine. The SIC codes for the facility are 2819 and 2869.

There are four cooling water/process water discharge points which are designated as Discharge Serial Numbers (DSN) 004, 005, 008 and 009. DSN 004 averages 3.34 MGD and consists of cooling water from dimethyl hydrocyl amine production. DSN 005 averages 0.61 MGD and consists of cooling and process waters from dimethyl sulfate production. DSN 008 averages 1.92 MGD and consists of treated cooling water process waters from reagent acids, chlorosulfonic acid, sulfur trioxide and ammonium thiosulfate production; and treated process water from sodium bisulfite production. DSN 009 averages 3.57 MGD and consists of treated cooling and process waters from sulfuric acid and formaldehyde production.

The DSN 008 treatment system consists of first-stage neutralization, equalization, second-stage neutralization and suspended solids settling. The DSN 009 treatment system consists of neutralization.

For an existing facility, issuance of the NJPDES permit is the enforcement mechanism by which pollutant discharges are brought into compliance with standards.

attachment &

This notice is being ven to inform the public at NJDEP has prepared a draft NJPDES permit. This draft permit contains conditions necessary to implement the provisions of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A-1 et seq.), which were promulgated pursuant to the authority of the New Jersey "Water Pollution Control Act" (N.J.S.A. 58:10A-1 et seq.).

The draft permit prepared by NJDEP is based on the administrative record which is on file at the offices of the NJDEP, Division of water Resources, located at 1474 Prospect Street in the Township of Ewing, Mercer County, New Jersey. It is available for inspection, by appointment, between 8:30 a.m. and 4:00 p.m., Monday through Friday. Appointments for inspection may be scheduled by calling (609) 984-4428.

Interested persons may submit written comments on the draft permit to the Administrator, Water Quality Management, at the address cited above. All comments shall be submitted within 30 days of the date of this public notice. All persons, including applicants, who believe that any condition of this draft permit is inappropriate or that the Department's tentative decision to issue this draft permit is inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period. All comments submitted by interested persons in response to this notice, within the time limit, will be considered by the NJDEP with respect to the permit application. At the close of the public comment period, the Department will issue or deny the permit. The Department will respond to all significant and timely comments when a final permit is issued. The applicant and each person who has submitted written comments will receive notice of NJDEP's final decision.

Any interested person may request in writing that NJDEP hold a non-adversarial public hearing on the draft permit. This request shall state the nature of the issues to be raised in the proposed hearing and shall be submitted within 30 days of the date of this public notice to the Administrator, Water Quality Management at the address cited above. A public hearing will be conducted whenever the NJDEP determines that there is a significant degree of public interest in the permit decision. If a public hearing is held, the public comment period in this notice shall automatically be extended to the close of the public hearing.

Arnold Schiffman Administrator Water Quality Management

WQM98-A/PN3:fmm

State of New Jersey
Department of Environmental Protection
Division of Water Resources
1474 Prospect St., CN-029
Trenton, New Jersey 08625

FACT SHEET
FOR DRAFT NJPDES PERMIT TO DISCHARGE
INTO THE WATERS OF THE STATE OF NEW JERSEY

No. NJPDES

Application No.

Date:

NJ0002640

Name and Address of Applicant: E.I. DuPont DeNemours & Co.

1007 Market Street Wilmington, DE 19898

Name and Address of Facility where Discharge Occurs:

E.I. DuPont, Grasselli Plant South Wood Ave.

Linden, N.J. 07036

Receiving Water:

Arthur Kill

Classification:

TW- 3

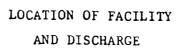
I. LOCATION OF DISCHARGE

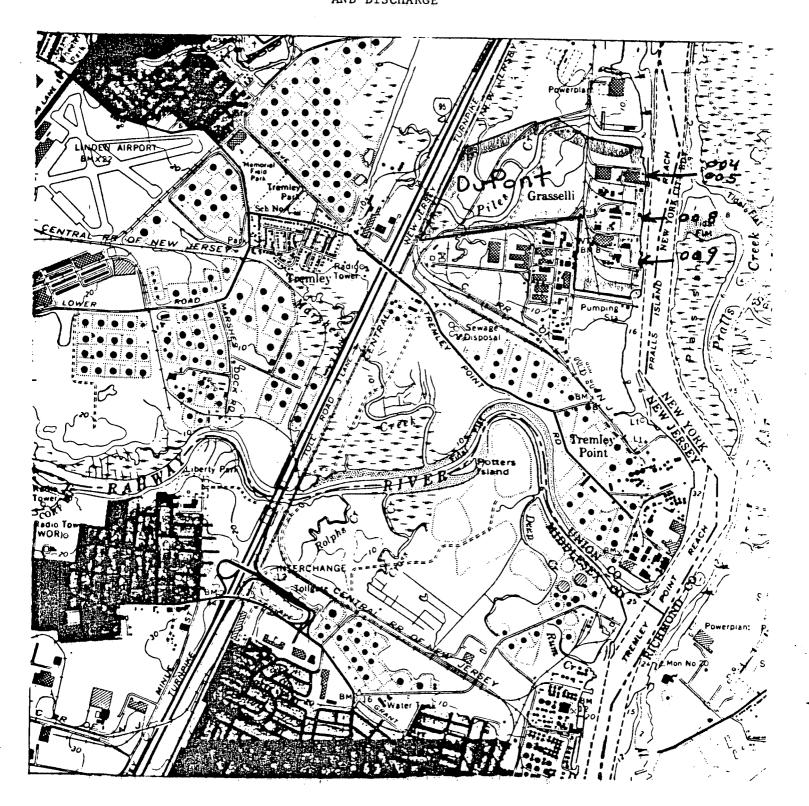
The above named applicant has applied for a New Jersey Pollutant Discharge Elimination System (NJPDES) permit, to the State of New Jersey Department of Environmental Protection, Division of Water Resources to discharge into the designated receiving water.

A description and/or sketch of the location of the discharge is appended as Attachment I.

II. DESCRIPTION OF FACILITY

A brief description of the type of facility or activity which is the subject of the draft permit is provided in the Public Notice of preparation of this draft permit.





CONTINUED FROM THE FRONT					
VII. SIC CODES (4-digit, in order of priority)		医铁线线			医克克氏病 第二次
A. FIRST		2.454		B. SECOND	
7 2819 (specify) INDUSTRIAL INORGANIC CH	1EMICALS /	869		IAL ORGANI	C CHEMICALS
C. THIRD	- 45 mg/s	and the second	(specify)	D. FOURTH	
7	7		(0)		
	· · · · · · · · · · · · · · · · · · ·				
8 E. I. DU PONT DE NEMOURS AND	COMPANY	:			B. is the name listed Item VIII-A elso to owner? XYES NO
C. STATUS OF OPERATOR (Enter the appropriate letter	to the same hour			T = = = =	35 Salar and American
F = FEDERAL M = PUBLIC (other than federal or state S = STATE O = OTHER (specify) P = PRIVATE		y . Other ,	apecity.)	A 201	8'62 1500
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F. CITY OR TOWN	10月2年では1980年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	1177	1 1 1	IX. INDIAN LANG	ted on Indian lands?
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	er segar er seggige Nasil	1	47 - 91	B2	a Maria Sur Halanda (1995)
	Ada Emissions from				
9 N NJ0002640 9 P	(Air Emissions from I		T T T		
B. UIC (Underground Injection of Fluids)	E. OTHER (spec	על)			
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C. RCRA (Hazardous Wastes)		44.1	SE	E ATTACHE	D SHEET
	E. OTHER (spec	י נעטי דרד	(spec	· · · · · · · · · · · · · · · · · · ·	Pr
9 R			30		
XI. MAP					
Attach to this application a topographic map of the area the outline of the facility, the location of each of its extreatment, storage, or disposal facilities, and each well water bodies in the map area. See instructions for precise	cisting and propose where it injects flu	id intake ids under	and discharge ground. Include	structures, each o	f its hazardous waste
XII. NATURE OF BUSINESS (provide a brief description)				Sala Carlos	
The Grasselli Plant is a Department of E. I. du Pont de in the manufacture of Sulfuric Chemicals, Aluminum Sulfate, A Solution, Chlorosulfonic Acid, Acid.	division Nemours a Acids, Re mmonium Th	nd Co agent iosul	mpany. Grade C fate, Sc	The plant Chemicals, odium Bisu	is engaged Agricultural lfite /
				·	
I certify under penalty of law that I have personally extattachments and that, based on my inquiry of those application, I believe that the information is true, accurate information, including the possibility of fine and in	persons immediate rate and complete.	lv resoon	sible for obtain	ining the informa	tion contained in the
Robert J. Blair, Vice Presider Chemicals and Pigments	B. SIGNATURE	1	13/		5/20/1
COMMENTS FOR OFFICIAL USE ONLY			TO SHE BATT		
C	A STATE OF THE STA	1		A Committee of the Comm	All the control of the control of the control of
13 16	<u> </u>				
EPA Form 3510-1 (6-80) REVERSE					

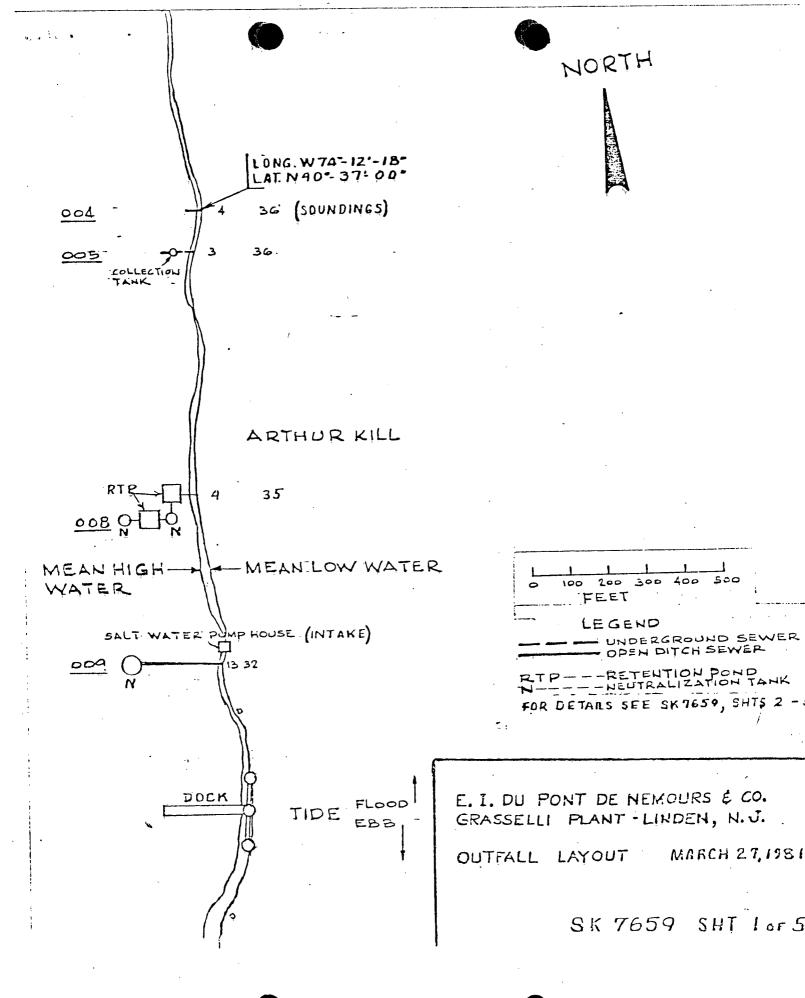
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C. THIRD		C (speci		
7		7	(ענו	
VIII. OPERATOR INFORMATION	CON MARK PRANCES OF THE			
	A. NAME	en i i i i samen en e		B. is the name listed in Item VIII-A also the
8 E. I. DU PONT DE NEMOU	JRS AND COMPANY	HARAMITTONICANA YAM		owner? YES □ NO
C. STATUS OF OPERATOR (Enter the ap				PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than S = STATE O = OTHER (specify) P = PRIVATE	n federal or state) P (spo	ecify)	A 20	
1007 MARKET STREET	OR P.O. BOX			in the second se
E CITY OF TO	WN	50 S S S S S S S S S S S S S S S S S S S	WA	A CONTRACTOR OF THE PROPERTY O
				y located on Indian lands? المراجعة
B WILMINGTON	! - ! - ! - ! - ! - ! - ! - ! - !			ES 💹 NO
X. EXISTING ENVIRONMENTAL PERMITS		41 42 47	- 1	
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions)			
9 N NJ0002640	9 P			
B. UIC (Underground Injection of Fluids)	MAN E. OTHER	(specify)	J. 1949.	
9 0	9		(specify)	OURD CURRM
C. RCRA (Hazardous Wastes)	26 16 16 17 18 E. OTHER	(specify)	SEE ATTA	CHED SHEET
9 R	, 64111111		(specify)	
XI. MAP	30 13 14 17 14		30	
Attach to this application a topographic method the outline of the facility, the location of treatment, storage, or disposal facilities, a water bodies in the map area. See instruction	nap of the area extending to each of its existing and pro- and each well where it injec	at least one mile bey oposed intake and d ts fluids undergroun	ond property bound	eries. The map must show
XII. NATURE OF BUSINESS (provide a brief des	cription)	等的 经营业的	《日本》 《日本》	14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14.1. 14
The Grasselli Plant Department of E. I. du in the manufacture of Chemicals, Aluminum Sulsolution, Chlorosulfon Acid.	Pont de Nemour; Sulfuric Acids, lfate, Ammonium	s and Compar Reagent Gra Thiosulfate	ny. The pla ade Chemica e, Sodium B	ant is engaged ls, Agricultural isulfite
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XIII. CERTIFICATION (see instructions)		Andrew Bresser	જાર કરી માં દુવાનું કેને જાણ છે.	
I certify under penalty of law that I have attachments and that, based on my inquapplication, I believe that the information false information, including the possibility	iry or those persons imments is true, accurate and composition of fine and imprisonment.	diately responsible in plate, I am aware the	for obtaining the inf	armatian contained in the
Robert J. Blair, Vice Chemicals and Pigments	1	IRE CALL	Blair	5/20/1
COMMENTS FOR OFFICIAL USE ONLY			S. Marian	

FORM 1 GENERAL

X EXISTING ENVIRONMENTAL PERMITS

- 1. Federal Permit (EPA) NJ006
- 2. New Jersey State Permits (Air)

3240	18361	40500
3241		40702
	19140	40706
3242	21280	41583
3243	21896	
	22030	44033
3351	22724	
	22734	45249
3352	23182	45445
3353	24403	46052
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	32658	,
12225	32882	
12511	34586	
12698		
	36271	
13649	37188	



FORM

APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program NJ 0 0 0 2 6 4 0

£ U	N/L			Permits Program
NPDES			一种分别的一种主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主	Market Street
I. OUTF	ALL LOC	ATION	A SAN AND A CONTROL OF THE PROPERTY OF THE PRO	

OUTFALL	I, list the latitude and longitude of			C. L	ONGITUD)E	D. RECEIVING WATER (name)
(list)	1. 089.	a. MIN.), SEC.	1. DEG.	2. MIN.	3. SEC.	
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II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, Attach a line drawing showing the water now through the racility, indicate sources of intake water, operations contributing wastewater to the efficient, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, continued by each operation and (3) The treatment received by the wastewater Continued

	b. LIST COTABLE TABLES 2-K	ODES FROM LE 2C-1
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OFFICIAL USE ONLY leffluent guidelines sub-cate





						3. FRE	QUENCY	T		4. FLOW		
OUTFALL		2. OPE	RATIC	N(s)		a. DAYS	1	B. FLOW RATE		b. TOTAL VOLUME		r
NUMBER (list)		CONTRIB	UTING FLOW		N	PER WEEN (specify average)	D. MONTHS PER YEAR (specify average)	(in mgd) 1. LONG TERM 2. MAXIMUM DAILY			2. MAXIMUM DAILY	C DUR ATION (in days
004	Ani	sole Ma	nuf	actu	re	7	3	None*	None	None	None	90
		-Contac ater	t C	ool i	ng	7	3	0.2	0.4		_	90
	*Pro	PA Perm	ast it	es a NJ00	re co:	llected	and ba	rged to	sea f	or disp	osal	
I. MAXIMUM I									Fazin Li			
	es (comp	rere Hem III-1	B)			der Section 30	4 of the Clean	Water Act app	oly to your fa	cility?	And the second s	,
	(comp	ece 115111 111-6	-)					NO (go t	o Section IVI		······································	
C. If you answer and units us	ered "Yes	" to Item III- applicable eff	B, list t					nent of your n	naximum leve	of production	n, expressed in	the terms
	_	I			I. MAXIMU	M QUANTITY	<u> </u>				2. AFFE	CYES
8. QUANTITY PER DAY D. UNIT		b, units of	F MEAS	u RE		Ç. OP	C. OPERATION, PRODUCT, MATERIAL, ETC. (Specify)					ALLS numbers)
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. IMPROVEME	NTS	种色 强独		67.46	rehinner.	and the second	THE MENTERS		《 [2] (1) (1)	ar an indicator of the	经分别分别等	<i>j</i>
A. Are you now water treatme	required	by any Fede	eral, Sta tices or ions, ad	ate or lo any ot iministr	ocal authoris her environs ative or enfo	ty to meet any mental program proement order	implementations which may rs, enforcemen	on schedule fo affect the dis t compliance (r the constru charges descr chedule lette	ction, upgradi	ng or operation	n of waste- is includes, , and grant
IDENTIFICATI	ONOFO	ONDITION			ED OUTFA	e following tab	ole)	X NO (80 to	Item IV-B)			
AGREEN	MENT, E	rc i	8. NO.		CE OF DISCH		3. BRI	EF DESCRIP	TION OF PR	OJECT	4. FIN. PLIANS 8. ME- GUIRED	D PRO-
. OPTIONAL: Your discharge	You may	attach addition now have und onstruction,	onal she	ets desc	ribing any a	dditional wate n. Indicate wh	r pollution cor	ntrol programs	for other en	vironmental pr	oiects which n	nay affect actual or

CONTINUED FROM THE FRONT			•		
VII. BIOLOGICAL TOXICITY TESTING DAT	Alaba Alla Andrews Commenced Commenc	A JAMES CONTRACTOR	想得到这种的人。		
Do you have any knowledge or reason to believe receiving water in relation to your discharge with	that any biological test for acute or chronic toxicity	has been made on any of	your discharges or on a		
•	• • •				
YES (identify the test)	s) and describe their purposes below)	NO (go to Sect	on VIII)		
· •					
_	•				
	,	•			
			•		
III.CONTRACT ANALYSIS INFORMATION	Anna Para de Propinsión de la Persona de la	Mark State State	Goddyn yr Party by Garage		
Were any of the analyses reported in Item V peri	ormed by a contract laboratory or consulting firm?	,,			
YES (list the name, add	dress, and telephone number of and pollutants such laboratory or firm below)	NO (go to Secti	on IX)		
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED		
		(area code & no.)	(list)		
Acurex Corporation	485 Clyde Avenue	(415)	All substances		
Acutex corporation	Mountain View, CA 94042	964-3200	in V-C except		
	Modification view, CA 34042	904-3200	Phenol		
,			Filehoi		
Interstate Sanitation	10 Columbus Circle	(212)	BOD in V-A		
Commission	New York, New York	582-0380	,		
	10019		1		
			1		
New York Testing Labor-	P.O. Box 484	(516)	Oil and Grease		
atories, Inc.	81 Urban Avenue	334-7770	in V-B and		
	Westbury, L.I., N.Y.		Phenol in V-C		
	11590		,		
	·				
X. CERTIFICATION					
	percopally even in a series of the series of				
attachments and that, based on my inquiry	personally examined and am familiar with the of those individuals immediately responsible	for obtaining the infor	mation. I believe that the in-		
ronnation is true, accurate and complete.	I am aware that there are significant penalt	ties for submitting fals	information, including the		
oossibility of time and imprisonment,		• · ·	, , , , , , ,		
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO	(area code & no.)		
	Robert J. Blair, Vice President				
Chemicals and Pigment	S		74-1825		
))		D. DATE SIGN	ED		
Noted to 100		5/-0/4	7		

SITE: NUMBER 1703 PAGE 1 FOR THIS SITE

GRASSELLI PLANT

X----

LINDEN,NJ 07036

COMPANY: COMPANY-FACILITY NUMBER 16035

E.I. DUPONT DE NEMCURS & CO. INC.

CHEMICALS, DYES & PIGMENTS DEP

GRASSELLI PLANT

X----

LINDEN,NJ 07036

COMPOSITION OF WASTE:

HEAVY1 ORGANI

ORGANZ

ORGAN3

ORGAN4 ORGAN12

HEAVY4

ORGAN6

ORGAN7

ORGAN17 INORG1

ORGAN18 INORGS

ORGAN19

ORGAN21

FIRST YEAR USED: 1928

LAST YEAR USED: 1979

ORGAN22

HUNDRED TONS:

THOUSAND GALLONS:

THOUSAND CUBIC YDS.: .

ORGAN23

MISCL

MISC4

MISC5

I. DU PONT COMPANY POLICY

Samuel Lenher, Vice-President of the Du Pont Company has stated our company policy quite simply:

"Our policy is simple - Du Pont will do whatever is necessary to meet or exceed all standards for clean air or water wherever we operate. It has been our intention through the years to be responsible corporate citizens and we will continue to act that way."

II. DU PONT'S HISTORIC CONCERN

- A. Environmental control work within the Company began on a plant-by-plant basis in the mid-1930's.
- B. In 1938, Du Pont's Executive Committee requested that all Departments exhibit the same amount of consideration for environmental control as we do for industrial safety the latter synonymous with Du Pont.
- C. Since 1938, no new facilities or expansions have been authorized unless they meet the latest standards and regulations for environmental control.
- D. In 1969, Du Pont's total investment in environmental control totaled upwards of \$145 million.
- E. Currently more than 1000 persons are assigned to the technical aspects of environmental control.

III. DU FONT'S DEVELOPMENTS FOR ENVIRONMENTAL CONTROL

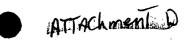
- A. Scrubbers which fit into smokestacks and eliminate noxious mists and odors.
- B. A new type of incinerator which has been widely adopted by other industries as well as by towns and municipalities across the country.
- C. Instruments to detect and to control the release of the most minute amounts of gases and odors.
- D. A thermal exhaust manifold reactor to reduce automobile exhaust fumes.

IV. THE ROLE OF OUR PLANT AT LINDEN, NEW JERSEY IN ENVIRONGENTAL CONTROL

A. Location of Plant

The plant is located:

- 12 miles from the tip of Manhattan
- 1/4 mile from Staten Island
- 1/2 mile from New Jersey Turnpike
- about a mile from nearest home along the Arthur Kill - a tidel strait which connects the western erd of Raritan Pay estuary with Newark and Upper Bays.



IV. THE ROLE OF OUR PLANT AT LINDEN, N.J., IN ENVIRONMENTAL CONTROL (Cont'd)

B. Plant History

- 1. Plant site developed by Standard Chemical Company in 18001s.
- 2. 1885 Plant sold to Grasselli Chemical Company 3 products
- 3.1928 Became Grasselli plant of the Du Pont Company
- 4. Now comprises 18 separate and distinct chemical operations, with 52 different basic chemical products, all of which are raw materials for other manufacturers. The four principal products are sulfuric acid, sodium silicate, strontium nitrate and chlorosulfonic acid. They are used by other companies in making consumer products such as pharmaceuticals, hair shampoos, deodorants, cardboard boxes, newsprint, and railroad and truck red safety flares.
- 5. Present plant employment is approximately 500. Our employees live in Northern New Jersey communities and on Staten Island. About 40% live in the Linden area.

C. Environmental Control Organization of Plant

- 1. A chemical engineer spends full time on environmental problems. He is assisted by several other engineers who spend time in this area equivalent to 3.0 full time engineers.
- 2. A plant-wide environmental committee is active through regular meetings and through individual projects.
- 3. Employees at all levels are involved in process control and operation designed to avoid environmental problems.
- 4. The Du Pont Central Engineering staff in Wilmington provides expert technical assistance. A dozen specialists are available.

D. New Construction at Plant

- 1. Formaldehyde plant and "Ludox" colloidal silica plant now under construction have been designed to meet all standards for clean air and water. We anticipate no environmental problems with either one of these new units.
- F. Our Plant Operates Under 6 Governmental Agencies' Jurisdiction (Regulatory & Enforcement)
 - Federal Water Quality Administration (FWQA)
 - U.S. Army, Corps of Engineers
 - U.S. Coast Guard
 - Interstate Sanitation Commission (ISC)
 - New Jersey State Department of Environmental Protection
 - Linden Board of Health (Henry Gavan, Health Officer)

We work closely with all these federal, state and local governmental agencies to meet all standards. We are - and will continue to be - in compliance with all regulations.

F. Environmental Control Facilities in Our Plant - Present & Future

Present

- Investment in plant environmental control facilities totals approximately \$1 million.
- Equipment includes many mist collectors, fume scrubbers, absorbers, dust collectors, neutralization systems and retention ponds.

Value is

- The most modern instrumentation and analyzers are used to monitor our processes.
- We monitor and control sulfur dioxide emitting stacks.
- We consume low sulfur fuel.
- We have reduced our Biochemical Oxygen Demand (BOD) load to the Arthur Kill > 80% since 1968 by barging to sea.
- We have pH monitors and alarms on effluents.
- We have continuous temperature recording to avoid thermal discharges to Arthur Kill.
- We discontinued the use of our incinerator in 1969.
- We isolate our sources of excessive noise and monitor our employees' hearing by annual audiograms.

Future

We have designed into recently approved projects:

- A burner to convert all off-gases to carbon dioxide and water.
 (> 98% efficiency)
- Neutralization facilities to avoid discharge of objectionable effluents.
- New facilities to eliminate a type of furnacing operation in existence here at Grasselli for over 61 years in which we have difficulty controlling gaseous emissions.
- Additional alarm and detection systems to avoid acidic effluent discharges.

We are continually studying all existing processes to further reduce wastes and/or to improve the method of disposal.